

IN THE CLAIMS

1. (Withdrawn) A method for forming a data storage media, comprising:
injection molding a substrate comprising a plastic surface and a preformed core, wherein the plastic surface comprises surface features, wherein said surface features have greater than about 90% of a surface feature replication of an original master; and
disposing a data layer over at least one surface of said substrate;
wherein said data storage media has an axial displacement peak of less than about 500μ under shock or vibration excitation when excited by a 1 G sinusoidal loading.

2 – 15. (Cancelled)

16. (Withdrawn) The method of Claim 1, wherein the plastic surface comprises a thermoplastic.

17. (Withdrawn) The method of Claim 1, wherein the plastic surface comprises a thermoset.

18. (Previously Presented) A method for forming a data storage medium, comprising:
injection molding a substrate comprising a plastic surface and a preformed core, wherein the plastic surface comprises surface features, wherein said surface features have greater than about 90% of a surface feature replication of an original master; and
disposing a reflective layer on a surface of the substrate;
wherein said data storage medium has an axial displacement peak of less than about 500μ under shock or vibration excitation when excited by a 1 G sinusoidal loading.

19. (Previously Presented) The method of Claim 18, wherein said core comprises a material selected from the group consisting of metal, glass, ceramic, metal-matrix composite, and alloys and combinations comprising at least one of the foregoing materials.

20. (Previously Presented) The method of Claim 18, wherein the plastic surface comprises a thermoset.

21. (Previously Presented) The method of Claim 18, wherein the plastic surface comprises a polystyrene and comprises a material selected from the group consisting of polyphenylene ether, blends comprising polyphenylene ether, copolymers comprising polyphenylene ether, mixtures comprising polyphenylene ether, reaction products comprising polyphenylene ether, and composites comprising polyphenylene ether.

22. (Previously Presented) The method of Claim 18, further comprising disposing a thermoset coating on a side of the plastic surface opposite the core.

23. (Previously Presented) The method of Claim 18, wherein the storage medium has a thickness of up to about 1.2 mm.

24. (Previously Presented) The method of Claim 23, wherein the thickness is about 0.8 mm to about 1.2 mm.

25. (New) The method of Claim 18, wherein the plastic surface is disposed around the preformed core.

26. (New) The method of Claim 18, wherein the preformed core comprises a different material than the plastic surface.

27. (New) The method of Claim 18, wherein the plastic surface comprises a thermoset and the preformed core comprises a material selected from the group consisting of a polystyrene and comprises a material selected from the group consisting of polyphenylene ether, blends comprising polyphenylene ether, copolymers comprising polyphenylene ether, mixtures comprising polyphenylene ether, reaction products comprising polyphenylene ether, and composites comprising polyphenylene ether.

28. (New) A method for forming a data storage medium, comprising:
injection molding a substrate comprising a plastic surface and a preformed core, wherein the plastic surface comprises surface features, wherein said surface features have greater than about 90% of a surface feature replication of an original master;
disposing a reflective layer on the surface features; and
disposing a thermoset coating on the reflective layer;
wherein said data storage medium has an axial displacement peak of less than about 500μ under shock or vibration excitation when excited by a 1 G sinusoidal loading; and
wherein the storage medium has a thickness of up to about 1.2 mm.
29. (New) The method of Claim 26, wherein the plastic surface is disposed around the preformed core.
30. (New) The method of Claim 28, wherein the plastic surface comprises a thermoset and the preformed core comprises a material selected from the group consisting of a polystyrene and comprises a material selected from the group consisting of polyphenylene ether, blends comprising polyphenylene ether, copolymers comprising polyphenylene ether, mixtures comprising polyphenylene ether, reaction products comprising polyphenylene ether, and composites comprising polyphenylene ether.